

InPac 16000 Series

Fully configurable severe duty and explosion proof

HVAC and building pressurization systems

35–50 ton :: 123 to 176 kW

Features and Benefits

Built for critical applications

- Four stages of cooling allows inherent backups in refrigeration circuits lessens compressor load
- All-in-one design to allow a single point of connection
- 16-gauge cabinet construction for use in rugged, industrial applications
- Modular design allows improved maintenance and spare parts availability
- Form-C dry contacts for alarm outputs
- Standard motors labeled for Class 1 Div 2
- UL Listed electrical panels
- Fully CSA certified systems
- Industry standard voltage configurations, including: 480V 3ph 60Hz; 575V 3ph 60Hz; 380V 3ph 50Hz

Options and Accessories

- Built in NFPA-496 compliant building purge & pressurization
- Chemical and/or high efficiency particulate filtration
- 316 or 304 stainless steel construction
- Electric heat from 10 kW – 60 kW+
- Air quality monitoring for explosive, toxic, or corrosive gases
- Corrosion resistant coil coatings
- Corrosion resistant condenser section
- Low ambient controls, down to -70°F (-55°C)
- Fresh air stack packages
- Multiple unit control

Engineered to allow full environmental control of your building.

Specific Systems InPac units are engineered and proven to stand up to the rigors and harsh conditions of corrosive and hazardous environments. The InPac line is built to demanding industrial and military specifications and features corrosion resistant coatings and inherent redundancy.

Our InPac units are engineered from the ground up to make your job easier. In fact, our modular design eliminates the need for the integration of systems from multiple vendors. Instead, using a Specific Systems InPac HVAC allows for a single point of connection to perform all of the functions otherwise requiring multiple types of units.

InPac systems are custom-engineered and built-to-order for each customer using a time-proven assembly method. Standard unit cabinets are manufactured of 16-gauge galvanized steel with all-welded construction. The completed cabinet is painted with a finish to help fight corrosion. Standard fan module consists of a motor and direct drive blowers. If any auxiliary (stand-by) fan is needed, it can be provided along with the necessary controls to automatically purge and pressurize the building. The auxiliary fan serves secondarily as a redundant fan should a failure occur to the primary fan.

Starting with our time-proven industrial DX air conditioning system, you can include many options, including those listed at left. This all-in-one design allows quicker and more efficient integration into your structure. Form-C dry contacts for alarm outputs are standard, with full remote controls available through an optional BacNet or LonWorks compatible PLC.



InPac 16000 Series

Electrical Data • Capacity Data • Preliminary Dimensions

Total Cap. @ 60Hz, 80 DB / 67 WB Entering Evap.

Model	75°F (24°C)	85°F (29°C)	95°F (35°C)	110°F (43°C)	120°F (49°C)
16420 (kW)	495000 (145.0)	471000 (138.0)	446000 (130.9)	408000 (119.7)	382000 (112.1)
16480 (kW)	601000 (176.3)	573000 (167.9)	543000 (159.2)	495000 (145.2)	463000 (135.9)
16540 (kW)	601000 (176.3)	572000 (167.6)	541000 (158.7)	472000 (144.4)	459000 (134.5)
16600 (kW)	643000 (188.6)	611000 (179.3)	576000 (168.9)	524000 (154.0)	485000 (142.4)

Sensible Cap. @ 60Hz, 80 DB / 67 WB Entering Evap.

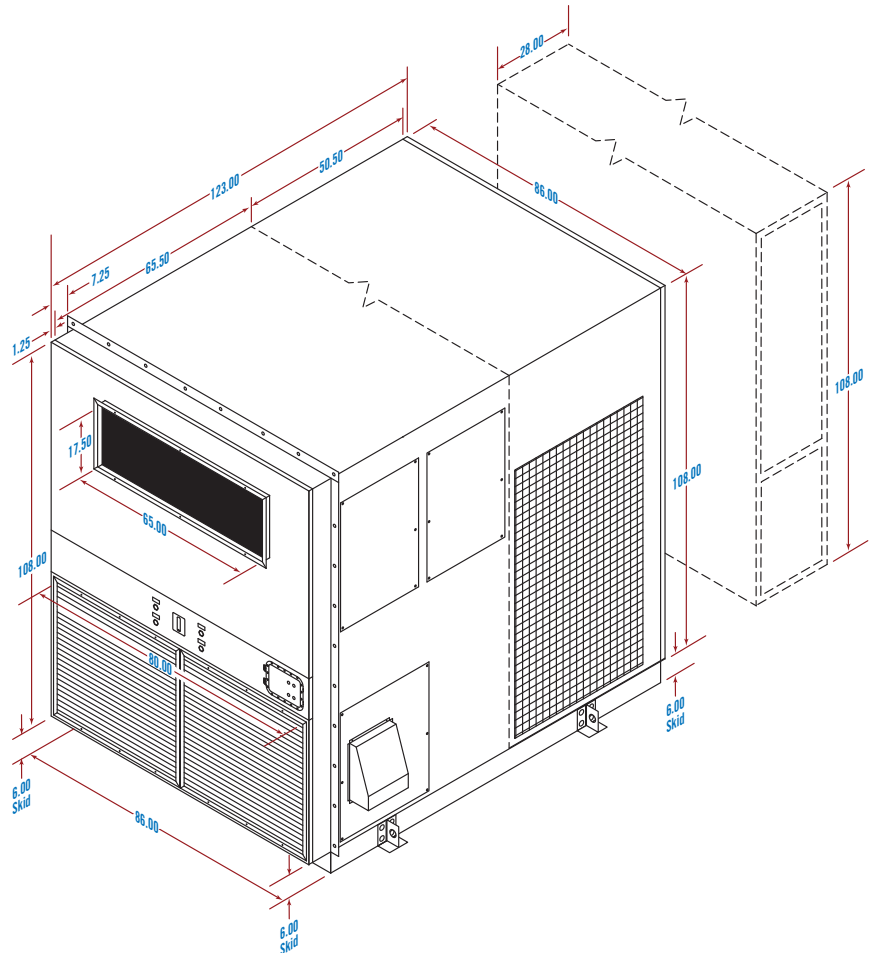
Model	75°F (24°C)	85°F (29°C)	95°F (35°C)	110°F (43°C)	120°F (49°C)
16420 (kW)	345000 (101.2)	335000 (98.4)	325000 (95.5)	309000 (90.6)	300000 (88.1)
16480 (kW)	408000 (119.5)	397000 (116.6)	385000 (113.0)	364000 (106.8)	354000 (103.8)
16540 (kW)	421000 (123.5)	410000 (120.4)	399000 (117.0)	379000 (111.0)	366000 (107.2)
16600 (kW)	450000 (132.1)	440000 (128.9)	424000 (124.2)	404000 (118.4)	387000 (113.5)

Total Cap. @ 60Hz, 80 DB / 61.8 WB Entering Evap.

Model	75°F (24°C)	85°F (29°C)	95°F (35°C)	110°F (43°C)	120°F (49°C)
16420 (kW)	455000 (133.4)	433000 (126.7)	411000 (120.6)	379000 (111.3)	355000 (104.2)
16480 (kW)	554000 (162.4)	527000 (154.5)	500000 (146.8)	458000 (134.2)	430000 (126.0)
16540 (kW)	555000 (162.8)	528000 (155.0)	499000 (146.3)	460000 (135.0)	428000 (125.4)
16600 (kW)	595000 (174.5)	563000 (165.2)	533000 (156.3)	490000 (143.8)	450000 (132.1)

Sensible Cap. @ 60Hz, 80 DB / 61.8 WB Entering Evap.

Model	75°F (24°C)	85°F (29°C)	95°F (35°C)	110°F (43°C)	120°F (49°C)
16420 (kW)	425000 (124.6)	414000 (121.3)	402000 (117.9)	380000 (111.3)	355000 (104.3)
16480 (kW)	499000 (146.2)	486000 (142.4)	475000 (139.2)	455000 (133.4)	430000 (126.0)
16540 (kW)	522000 (153.0)	511000 (149.8)	490000 (143.8)	460000 (135.0)	427000 (125.3)
16600 (kW)	563000 (165.1)	547000 (160.3)	533000 (156.3)	490000 (143.8)	450000 (132.0)



Model	CFM @ 0.50" S.P.		Nominal Capacity		Model	Refrigerant Capacity	
	60Hz	50Hz	60 Hz	50 Hz		Standard	w/Receivers
16420	13550	11290	420000	350000	16420	32	80
16480	13550	11290	480000	400000	16480	32	82
16540	19560	16300	540000	450000	16540	32	82
16600	19560	16300	600000	500000	16600	32	82

- Dimensions shown are representative of our Class 1 Div 2 vertical, through-the-wall HVAC and pressurization system
- All dimensions should be considered preliminary, and this drawing should not be used as a final construction document
- Clearances are provided as standard for maintenance. Any required clearances should be confirmed with local regulations or statutes for electrical systems
- Electrical and capacity data provided in this document is accurate at the time of publishing, but Specific Systems reserves the right to modify components in future systems, thereby negating the accuracy of these numbers.
- Please verify all data with your sales representative and subsequent project engineer

MODEL 16420		460/480V	415V	380V	575V
Electric Power		3Φ-60Hz	3Φ-50Hz	3Φ-50Hz	3Φ-60Hz
Evaporator Fan Motor FLA		25.0	25.0	25.0	20.4
Condenser Motor FLA		3.5	3.3	3.3	2.8
Compressor Motor RLA		30.4	30.4	30.4	24.6
Heat 40kW, Amps (Actual kW)		50.0 (41.6)	—	—	41.8 (41.6)
Heat 30kW, Amps (Actual kW)		37.0 (30.8)	43.2 (31.1)	44.2 (29.1)	31.0 (30.8)
Heat 20kW, Amps (Actual kW)		26.0 (21.6)	27.2 (19.6)	29.4 (19.4)	21.6 (21.6)
Heat 15kW, Amps (Actual kW)		18.5 (15.4)	22.6 (16.2)	25.0 (16.5)	15.4 (15.4)
Heat 10kW, Amps (Actual kW)		13.0 (10.8)	16.0 (11.5)	14.8 (9.7)	10.8 (10.8)
Total FLA, Cooling	w/o Auxiliary Fan	94.3	93.9	93.9	96.9
	w/Auxiliary Fan	119.3	118.9	118.9	117.3
10–40 kW Heat	MCA w/o Aux Fan	101.9	101.5	101.5	105.6
	MOP w/o Aux Fan	125.0	125.0	125.0	125.0
	MCA w/Aux Fan	126.9	126.5	126.5	126.0
	MOP w/Aux Fan	150.0	150.0	150.0	150.0
Operating Range		432V–506V	373V–456V	342V–418V	517V–600V

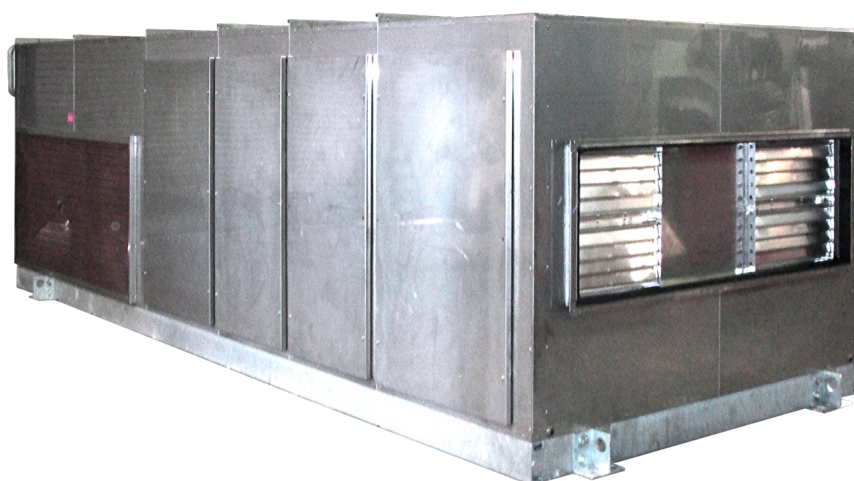
MODEL 16480		460/480V	415V	380V	575V
Electric Power		3Φ-60Hz	3Φ-50Hz	3Φ-50Hz	3Φ-60Hz
Evaporator Fan Motor FLA		25.0	25.0	25.0	20.4
Condenser Motor FLA		3.5	3.3	3.3	2.8
Compressor Motor RLA		42.9	42.9	42.9	34.7
Heat 40kW, Amps (Actual kW)		50.0 (41.6)	—	—	41.8 (41.6)
Heat 30kW, Amps (Actual kW)		37.0 (30.8)	43.2 (31.1)	44.2 (29.1)	31.0 (30.8)
Heat 20kW, Amps (Actual kW)		26.0 (21.6)	27.2 (19.6)	29.4 (19.4)	21.6 (21.6)
Heat 15kW, Amps (Actual kW)		18.5 (15.4)	22.6 (16.2)	25.0 (16.5)	15.4 (15.4)
Heat 10kW, Amps (Actual kW)		13.0 (10.8)	16.0 (11.5)	14.8 (9.7)	10.8 (10.8)
Total FLA, Cooling	w/o Auxiliary Fan	119.3	118.9	118.9	96.9
	w/Auxiliary Fan	144.3	143.9	143.9	117.3
10–40 kW Heat	MCA w/o Aux Fan	130.0	129.6	129.6	105.6
	MOP w/o Aux Fan	150.0	150.0	150.0	125.0
	MCA w/Aux Fan	155.0	154.6	154.6	126.0
	MOP w/Aux Fan	175.0	175.0	175.0	150.0
Operating Range		432V–506V	373V–456V	342V–418V	517V–600V

MODEL 16540		460/480V	575V
Electric Power		3Φ-60Hz	3Φ-60Hz
Evaporator Fan Motor FLA		32.0	26.0
Condenser Motor FLA		3.5	2.8
Compressor Motor RLA		41.9	34.7
Heat 40kW, Amps (Actual kW)		50.0 (41.6)	41.8 (41.6)
Heat 30kW, Amps (Actual kW)		37.0 (30.8)	31.0 (30.8)
Heat 20kW, Amps (Actual kW)		26.0 (21.6)	21.6 (21.6)
Heat 15kW, Amps (Actual kW)		18.5 (15.4)	15.4 (15.4)
Heat 10kW, Amps (Actual kW)		13.0 (10.8)	10.8 (10.8)
Total FLA, Cooling	w/o Auxiliary Fan	124.3	102.5
	w/Auxiliary Fan	156.3	128.5
10–40 kW Heat	MCA w/o Aux Fan	134.8	111.2
	MOP w/o Aux Fan	175.0	125.0
	MCA w/Aux Fan	166.0	137.2
	MOP w/Aux Fan	175.0	150
Operating Range		373V–456V	517V–600V

MODEL 16600		460/480V	575V
Electric Power		3Φ-60Hz	3Φ-60Hz
Evaporator Fan Motor FLA		32.0	26.0
Condenser Motor FLA		3.5	2.8
Compressor Motor RLA		41.9	34.7
Heat 40kW, Amps (Actual kW)		50.0 (41.6)	41.8 (41.6)
Heat 30kW, Amps (Actual kW)		37.0 (30.8)	31.0 (30.8)
Heat 20kW, Amps (Actual kW)		26.0 (21.6)	21.6 (21.6)
Heat 15kW, Amps (Actual kW)		18.5 (15.4)	15.4 (15.4)
Heat 10kW, Amps (Actual kW)		13.0 (10.8)	10.8 (10.8)
Total FLA, Cooling	w/o Auxiliary Fan	124.3	102.5
	w/Auxiliary Fan	156.3	128.5
10–40 kW Heat	MCA w/o Aux Fan	134.8	111.2
	MOP w/o Aux Fan	175.0	125.0
	MCA w/Aux Fan	166.0	137.2
	MOP w/Aux Fan	175.0	150
Operating Range		373V–456V	517V–600V



Left: Split InPac 16600 in stainless steel with explosion proof design and full corrosion resistance



Right: Roof mounted InPac 16600 in stainless steel with explosion proof design and full corrosion resistance